

03083 INSTRUCTIONAL TECHNOLOGY

Institutions will be expected to demonstrate the use of performance assessments within their programs. Examples of such assessments will be provided by the Education Standards and Practices Board as guidelines. Institutions are not restricted to using the given examples, but may develop others that demonstrate candidates' ability to apply what they have learned in the K-12 school setting.

03083.1. The program requires the study of basic computer/technology operations and concepts and the personal and professional uses of technology. The program uses varied performance assessments of the candidate's understanding and ability to apply that knowledge.

Examples of performance assessments may include how to:

- use computer systems run software; to access, generate, and manipulate data; and to publish results using multiple media;
- evaluate performance of hardware and software components of computer systems and apply basic troubleshooting strategies as needed;
- apply technological tools for enhancing their own professional growth and productivity;
- use technology in communicating, collaborating, conducting research, and solving problems;
- plan and participate in activities that encourage lifelong technology literacy;
- promote equitable, ethical, and legal use of computer/technology resources.

03083.2. The program requires the study of the application of technology in instruction, specialty content preparation in educational computing and technology literacy, and the uses of technology-based productivity tools to support instruction and student learning. The program uses varied performance assessments of the candidate's understanding and ability to apply that knowledge.

Examples of performance assessments may include how to:

- describe current instructional principles, research, and appropriate assessment practices related to the use of computers and technology resources in the curriculum;
- integrate advanced features of various technology-based productivity tools to support instruction and classroom management;
- demonstrate techniques for teaching age-appropriate and content area-appropriate computer and specific-purpose technologies to diverse students for the enhancement of learning in other content areas;
- assess historical and current trends to develop rationales for decisions concerning the social, ethical, and human issues related to computing and technology.

03083.3. The program requires the study of telecommunications and information access and the use of various technological tools in research, problem solving, and product development. The program uses varied performance assessments of the candidate's understanding and ability to apply that knowledge.

Examples of performance assessments may include how to:

- use a variety of telecommunications tools and information access resources to support instruction;
- use computers and other technologies in research, problem solving, and product development;
- demonstrate the use of a variety of media, presentation, and authoring packages;
- plan and participate in team and collaborative projects that require critical analysis and evaluation and present the products developed.

03083.4 The program requires study and practice of professional applications that prepare candidates to integrate teaching methodologies with knowledge about the use of technology to support teaching and learning. The program uses varied performance assessments of the candidate's understanding and ability to apply that knowledge.

Examples of performance assessments may include how to:

- select and demonstrate methods and strategies for teaching concepts and skills related to student use of computers, productivity tools, and information access and delivery in a classroom or lab setting;
- effectively plan and deliver a variety of student learning activities which appropriately incorporate technological tools in problem solving or the development and presentation of learning products;
- assess concepts and skills relevant to educational computing and technology literacy across the curriculum;
- identify sources of continuing professional growth related to technology and information on technological careers, state and national computer/technology standards, and professional educational technology organizations.

03083.5 The program requires the study of hardware and software selection, basic installation, management, and maintenance of the infrastructure in classroom and school settings. The program uses varied performance assessments of the candidate's understanding and ability to apply that knowledge.

Examples of performance assessments may include how to:

- research, evaluate, and develop recommendations for purchasing instructional software to support and enhance specific areas of the school curriculum;
- design and recommend procedures/policies for the organization, management, use and security of hardware and software in the school or classroom setting;
- configure a computer system and one or more software packages;

- identify strategies for troubleshooting and maintaining various hardware/software configurations including local area networks.

History

Revised August 12, 2005, mandatory for visits July 1, 2006.

EFFECTIVE DATE MARCH 2000, MANDATORY FOR VISITS MARCH 2002.